

APPROVED	
BY	435/69.6 NOV 8
DRAFTSMAN	

APPLN. FILING DATE: JUNE 10, 1988  
 TITLE: RECOMBINANT IMMUNOGLOBULIN PREPARATIONS  
 INVENTOR(S): CABILLY ET AL.  
 APPLICATION SERIAL NO: 07/205,419

SHEET 1 of 19

09/205-419  
 1. a/19

6331415

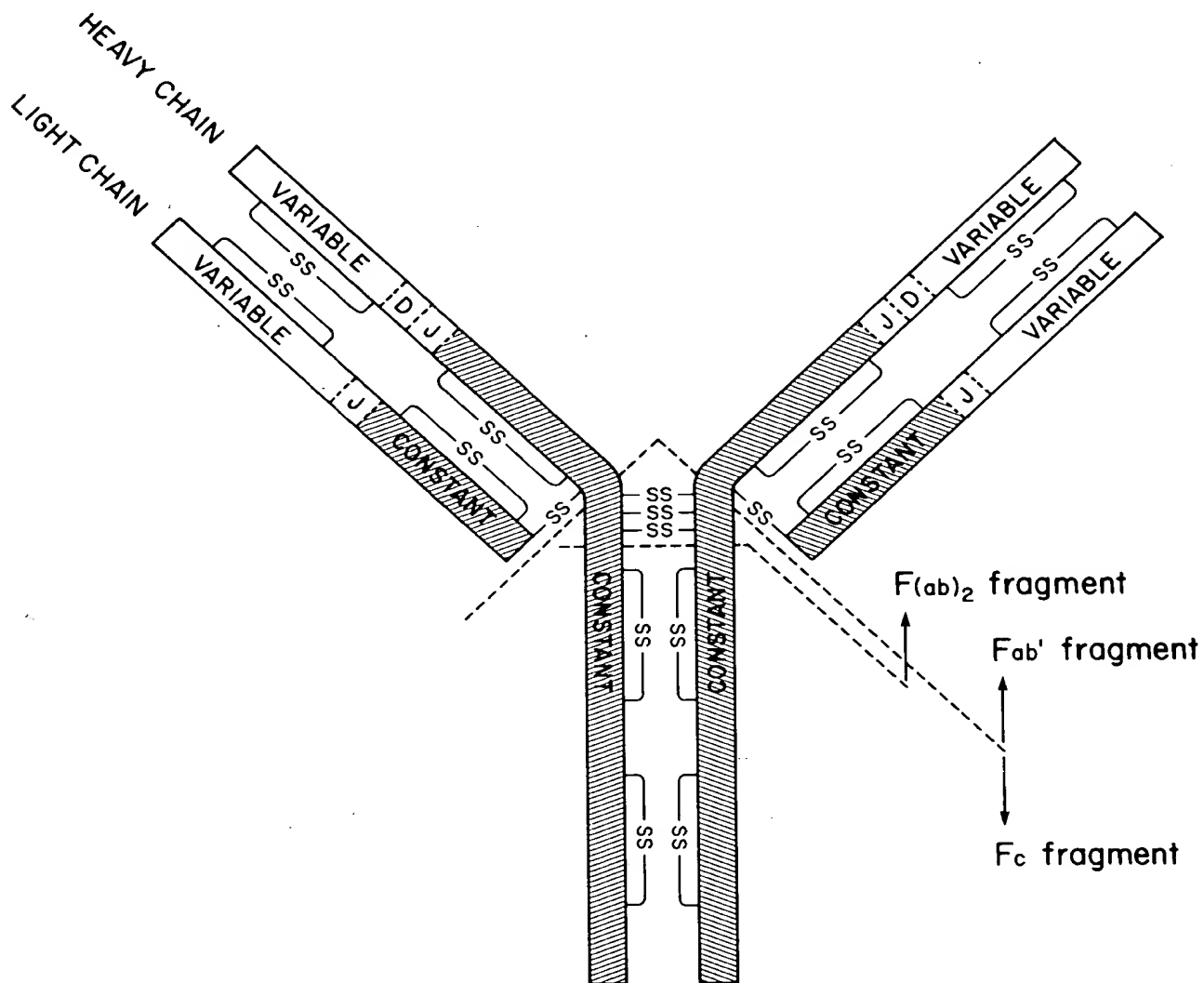


Fig. 1.

APPROVED	( )
BY	
DRAFTSMAN	

```

1      GTTGTCTGGT TTGAAGGAGA CATTGIGATG ACCCAGTCTC ACAAATTCAT GTCCACATCA GTAGGAGACA GGGTCAGCAT CACCTGGCAAG      haeIII
      CAACGACACC AACCTCCTCT GTAACACTAC TGGGTCAGAG TGTTAAGTA CAGGTGTAGT CATCCTCTGT CCCAGTCGTA GTGGACGTTT      haeI
      tthIII      tthIII      hphI      hphI
      sfanI      sfanI

101     GGCAGTCAGG ATGTGGGTGC TGCTATAGCC TGGTATCAAC AGAAACCAGG ACAATCICCT AACTACTGA TTTACTGGGC ATCCACCCGG CACACTGGAG      hinfI
      CGGTCAGTCC TACACCCACG ACGATATCGG ACCATAGTTG TCTTTGGTCC TGTTAGAGGA TTTGATGACT AAATGACCG TAGGTGGGCC GTGTGACCTC      hpaII
      foki      foki      sfanI      sfanI

201     TCCCTGATCG CTTCACAGGC AGTGGATCTG GGACAGATTT CACTCTCACC ATTAGCAATG TGCAGTCTGA TGACTTGGCA GATTATTTCT GTCAACAATA      hincII
      AGGGACTAGC GAAGTGTCCG TCACCTAGAC CCTGTCTAAA GTGAGAGTGG TAATCGTTAC ACGTCAGACT ACTGAACCGT CTAATAAAGA CAGTTGTTAT      hincII

301     TAGCGGGTAT CCTCTCACGT TCGGTGCTGG GACCAAGCTG GAGCTGAAC GGGCTGATGC TGCACCAACT GTATCCATCT TCCCACCATC CAGTGAGCAG      hpaI
      ATGCCCCATA GGAGAGTGCA AGCCACGACC CTGGTTCGAC CTCGACTTG CCCGACTAG ACGTGGTTGA CATAGGTAGA AGGTGGTAG GTCACTCGTC      hincII
      mnII      mnII      fnu4HI      fnu4HI      mboII      mboII      foki      foki

401     TTAACATCTG GAGGTGCCTC AGTCGIGTGC TTCTTGAACA ACTTCTACCC CAAAGACATC AATGTCAAGT GGAAGATTGA TGGCAGTGAA CGACAAAATG      acyI
      AATTGTAGC CTCCACGGAG TCAGCACACG AAGAACTTGT TGAAGATGG GTTCTGTAG TTACAGTTCA CCTTCTAAT ACCGTCACCT GCTGTTTAC      mboII
  
```

Fig. 2A.

APPROVED

BY

DRAFTSMAN

APPLN. FILING DATE: JUNE 10, 1988  
 TITLE: RECOMBINANT IMMUNOGLOBULIN  
 PREPARATIONS  
 INVENTOR(S): CABILLY ET AL.  
 APPLICATION SERIAL NO: 07/205,419

SHEET 3 of 19

```

sau3A      fnu4HI      mnlI      hincII      aluI
dpnI      bbv      CCTCAGGT      GACCAAGGAC      GAGTATGAAC      GACATAACAG
bclI      GCGTCCIGAA      CAGTTGGACT      GATCAGGACA      GCAAGACACAG      CACCTACAGC      ATGAGCAGCA
          CGCAGGACTT      GTCAACCTGA      CTAGTCTGT      CGTTTCTGTC      GTGGATGTCG      TACTCGTCGT      GGGAGTGCAA      CTGATTCTTG      CTGATTGTC
          hgaI      GATATGGACA      CTCCGGTGAG      TGTCTGTAG      TTGAAGTGGG      TAACAGTTCT      CGAAGTTGTC      CTTACTCACA      ATCTGTGT      CCAGGACTCT      GCGGTGGTGG
          mnlI      haeIII      haeI      hphI      aluI      sau96      hgaI
          CTATACCTGT      GAGGCCACTC      ACAAGACATC      AACITCACCC      ATTGTCAAGA      GCITCAACAG      GAATGAGTGT      TAGAGACAAA      GGTCTTGAGA      CGCCACCACC
          GATATGGACA      CTCCGGTGAG      TGTCTGTAG      TTGAAGTGGG      TAACAGTTCT      CGAAGTTGTC      CTTACTCACA      ATCTGTGT      CCAGGACTCT      GCGGTGGTGG
          mnlI      haeIII      haeI      hphI      aluI      sau96      hgaI
          AGCTCCCGAG      CTCCATCCTA      TCTTCCCTTC      TAAGTCTTG      GAGGTTCCC      CACAAGCGAC      CTACCACTGT      TGGGTGCTC      CAAACCTCT      CCCCACCTCC
          TCGAGGGGTC      GAGGTAGGAT      AGAAGGGAAG      ATTCCAGAAC      CTCGAAAGG      GTGTCGCTG      GATGGTGACA      ACGCCACGAG      GTTGGAGGA      GGGTGGAGG
          aluI      aluI      mbolI      ddel      mnlI      hgiA      mnlI
          AGCTCCCGAG      CTCCATCCTA      TCTTCCCTTC      TAAGTCTTG      GAGGTTCCC      CACAAGCGAC      CTACCACTGT      TGGGTGCTC      CAAACCTCT      CCCCACCTCC
          TCGAGGGGTC      GAGGTAGGAT      AGAAGGGAAG      ATTCCAGAAC      CTCGAAAGG      GTGTCGCTG      GATGGTGACA      ACGCCACGAG      GTTGGAGGA      GGGTGGAGG
          fokI
          mnlI      mnlI      xmnI      hinfI
          TTCTCTCTCT      CCTCCCTTTC      CTTGGGTTTT      ATCATGCTAA      TATTGCAGA      AAATATTCAA      TAAAGTGAGT      CTTTGCACCT      GA
          AAGAGGAGGA      GGAGGGAAG      GAACGAAA      TAGTACGATT      ATAACGTCT      TTTATAAGTT      ATTCACTCA      GAAACGTGAA      CT

```

nucleotides: 882

Fig. 2B.

Fig. 3

APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

```

1      hinfI      sau96      ddel      ahaIII      sfaNI
      GAGTCAGCAC TGAACACGGA CCCCTCACGA TGAACITCGG GCTCAGCTTG ATTACCTTG TCCTTGTTT AAAAGTTGTC CAGTGTGAAG TGATGCTGGT
      CTCAGTCGTG ACTTGTGCT GGGGAGTGCT ACTTGAAGCC CGAGTCGAAC TAAATGGAAC AGAACAAAA TTTTCAACAG GTCACACTTC ACTAGACCA

101    scrFI      sau96      fnu4HI      hinfI      hphi
      hinfI      hinfI      hinfI      hinfI      hinfI
      GGAGTCGGG GGAGTCTTAA TGGAGCCTGG AGGGTCCCTG AACTCTCTCT GTCAGCCCTC TGCATTCACT TTCAGTAGAT ATGCCATGTC TTGGGTTGCG
      CCTCAGACCC CCTCAGAAAT ACCTCGGACC TCCAGGGGAC TTGAGAGGGA CACCTCGGAG ACCTAAGTGA AAGTCATCTA TACGGTACAG AACCAAGCG

201    hpaII      mnlI      hphi
      hinfI      mboII      hinfI
      CAGACTCCGG AGAAGAGGCT GGAGTGGGTC GCAACCATTA GTAGTGGTGG TAGTTCACAC CTTCATCCCA GACAGTGTGA AGGGCGATT ACCATCTCCA
      GTCTGAGGCC TCTTCTCCGA CCTCACCAG CGTTGGTAAT CATCACCACC ATCAAGTGTG GAAGGTAGGT CTGTCACTT TCCCGCTAAG TGGTAGAGGT

301    rsal      mnlI      mnlI      haeIII      mnlI
      GAGACAATGC CAAGAACACC CTGTACCTGC AAATGAGCAG TCTGAGGTCT GAGGACACGG CCATGTATTA CTGTGCAAGA CCCCTCTTTA TTTCGTTAGT
      CTCTGTTACG GTTCTGTGG GACATGGACG TTTACTCGTC AGACTCCAGA CTCTGTGCC GGTACATAAT GACACGTTCT GGGGAGAAAT AAAGCAATCA

401    mnlI      ddel      hphi      mnlI      ddel      haeIII      dpnI
      AGCGGACTAT GCTATGGACT ACTGGGGTCA AGGAACCTCA GTCACCGTCT CCTCAGCCAA AACGACACCC CCATCTGTCT ATCCACTGGC CCCTGGATCT
      TCGCCTGATA CGATACTGA TGACCCAGT TCCTTGGAGT CAGTGGCAGA GGAGTCGGT TTGCTGTGG GGTAGACAGA TAGGTGACCG GGGACCTAGA

```

Fig. 4A.

APPROVED	BY	DATE
DRAFTSMAN		

```

501      fnu4HI      ncoI      sfaNI      fokI      scrFI      hphI      ecorII      bstEII      xhoII      sau3A      dpnI      bamHI
      GCTGCCCAAA CTAACCTCCAT GGTGACCCCTG GGATGCCCTGG TCAGAGGGCTA TTTCCTGAG CCAGTGACAG TGACCTGGAA CTCTGGATCC CTGTCCAGCG
      CGACGGGTTT GATTGAGTA CCACTGGGAC CCACTGGGACC AGTCCCGAT AAAGGGACTC GGTCACTGTC ACTGGACCTT GAGACCTAGG GACAGGTGCG

601      hgiA      pvuII      aluI      pstI      mnII      ddel      aluI      fnu4HI      bbv      ddel      mnII      haeIII      hphI
      GTGTGCACAC CTTCCAGCT GTCCCTGCAGT CTCCTGCAGT CTGACCTCTA CACTCTGAGC AGCTCAGTGA CTGTCCCTC CAGCCCTCGG CCCAGCGAGA CCGTCACCTG
      CACACGTGTG GAAGGGTCTGA CAGGACGTCA GACTGGAGAT GTGAGACTCG TCGAGTCACT GACAGGGGAG GACAGGGGAG GGTCTGCTCT GGCAGTGGAC

701      bglI      hpaII      bbv      fnu4HI      scrFI      haeIII      nciI      hpaII      bglI      CAACGTTGCC CACCCGGCCA GCAGGACCAA GGTCGACAAAG AATATTGTGC CCAGGGATTG TGGTTGTAAG CCTTGCATAT GTACAGTCCC AGAAGTATCA
      GTTGCAACGG GTGGGCCGGT CGTCGTGGT CCACCTGTTT TTTAACACAG GTCCCTAAC ACCAACATTC GGAACGTATA CATGTCAGGG TCTTCATAGT

801      mboII      mboII      TCTGTCTCA TCTTCCCCC AAAGCCCAAG GATGTGCTCA CCATTACTCT GACTCCTAAG CTCACGTGTG TGTGGTAGA CATCAGCAAG GATGATCCCG
      AGACAGAAGT AGAAGGGGGG TTTCGGGTTT CTACACGAGT GGTAATGAGA CTGAGGATTC CAGTGACAC AACACCATCT GTAGTCGTTT CTACTAGGGC

901      sau96      avaiI      aluI      pvuII      mnII      hgiA      aluI      hgaI      avaiI      ddel      smaI      scrFI      nciI      hpaII      mnII
      AGGTCCAGTT CAGCTGGTTT GTAGATGATG TGGAGGTGCA CACAGCTCAG ACCCAACCCC GGGAGGAGCA GTTCAACAGC ACTTCCGCT CAGTCAGTGA
      TCCAGGTCAA GTCGACCAA CATCTACTAC ACCTCCACGT GTGTCGAGTC TGGTTGGGG CCTCCTCGT CAAGTTGTCG TGAAGGGCGA GTCAGTCACT

```

Fig. 4B.

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

```

fnu4HI
bbv
1001 ACTTCCCATC ATGCACCCAGG ACTGGCTCAA TGGCAAGGAG TTCAAATGCA GGGTCAACAG TGCAGCTTTC CCTGCCCCCA CATCTCCAAA
TGAAGGGTAG TACGTGGTCC TGACCGAGT ACCGTTCCCTC AAGTTTACGT CCCAGTTGTC ACGTGGAAG GGACGGGGGT AGCTCTTTG GTAGAGGTTT
hincII aluI taqI
fnu4HI
bbv
1101 ACCAAAGGCA GACCGAAGGC TCCACAGGTG TACACCATTC CACCTCCCAA GGAGCAGATG GCCAAGGATA AAGTCAGTCT GACCTGCATG ATAACAGACT
TGGTTCCGT CTGGCTCCG AGGTGTCCAC ATGTGGTAAG GTGGAGGGT CCTCGTCTAC CGGTTCTAT TTCAGTCAGA CTGGACGTAC TATTGTCTGA
rsal mnlI haeIII
haeI
1201 ACCTCCCTGA AGACATTACT GTGGAGTGGC AGTGGAAATGG GCAGGCCACCG GAGAACTACA AGAACACTCA GCCCATCATG AACACGAATG GCCTTACTT
AGAAGGGACT TCTGTAATGA CACCTCACCG TCACCTTACC CGTCGGTCCG CTCTTGATGT TCTTGAGT CCGGTAGTAC TTGTGCTTAC CGAGAATGAA
fnu4HI
bbv
1301 accI aluI mboII mboII
CGTCTACAGC AAGCTCAATG TGCAGAAGAG CAACTGGGAG GCAGGAATA CTTCACCTG CTCTGTGTTA CATGAGGGCC TGCACAACCA CCATCTGAG
GCAGATGTCG TTCGAGTTAC ACGTCTTCTC GTTGACCTC CGTCCCTTAT GAAAGTGGAC GAGACACAAT GTACTCCCGG ACGTGTGGT GGTATGACTC
sau96
mnlI haeIII
1401 AAGAGCCTCT CCCACTCTCC TGGTAAATGA TCCCAGTGTG CTTGGAGCCC TCTGGTCCCTA CAGGACTCTG ACACCTACCT CCACCCCTCC CTGTATAAT
TTCTCGGAGA GGGTGAGAGG ACCATTCTACT AGGGTCACAG GAACCTCGG AGACCCAGGAT GTCTTGAGAC TGTGGATGGA GGTGGGGAGG GACATATTTA
scrFI sau3A sau96
hinfI
1501 AAAGCACCCA GCACCTGCCIT GGGAAAAA
TTTCGTGGGT CGTGACGGAA CCTTTTTT

```

Fig. 4C.







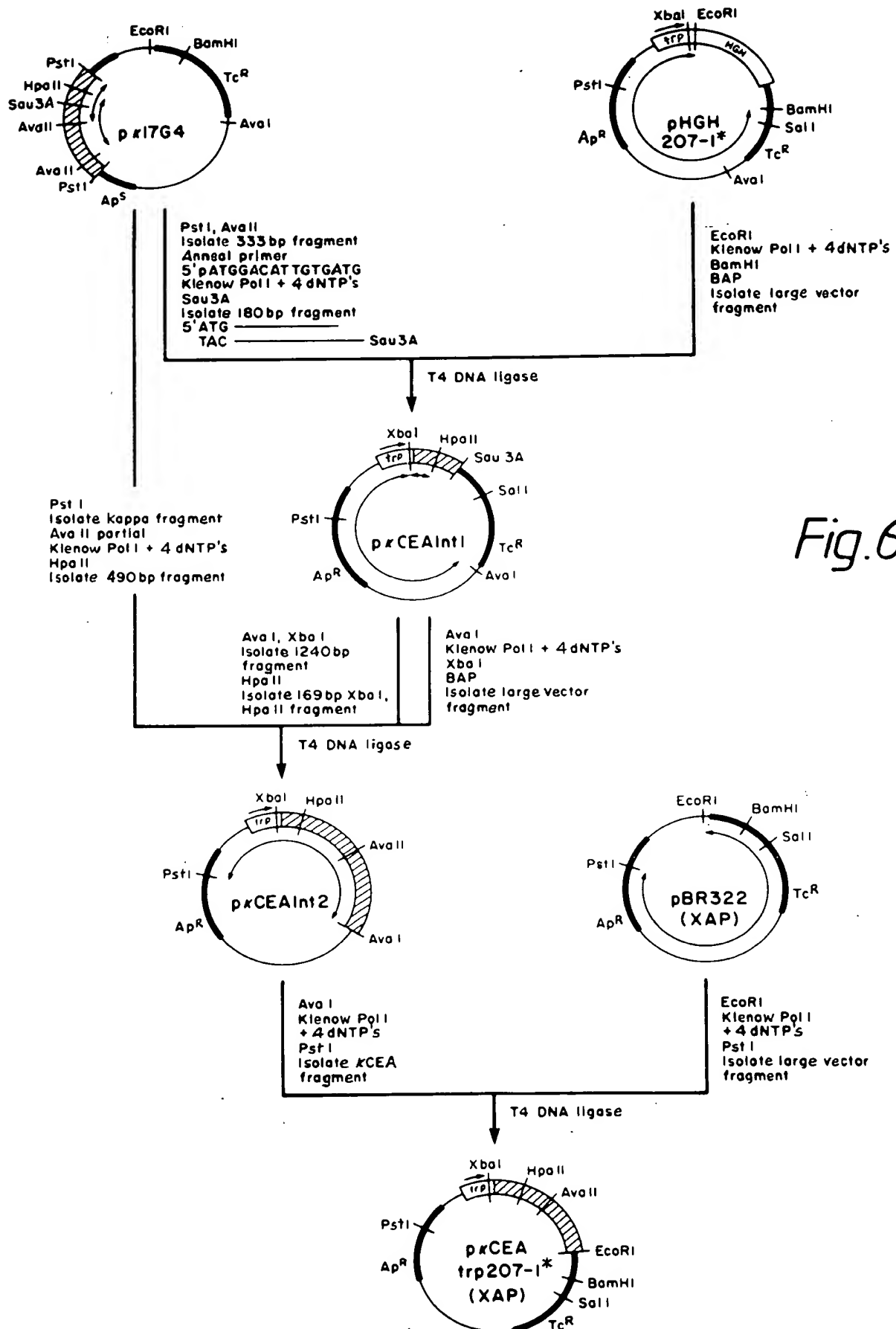


Fig.6.

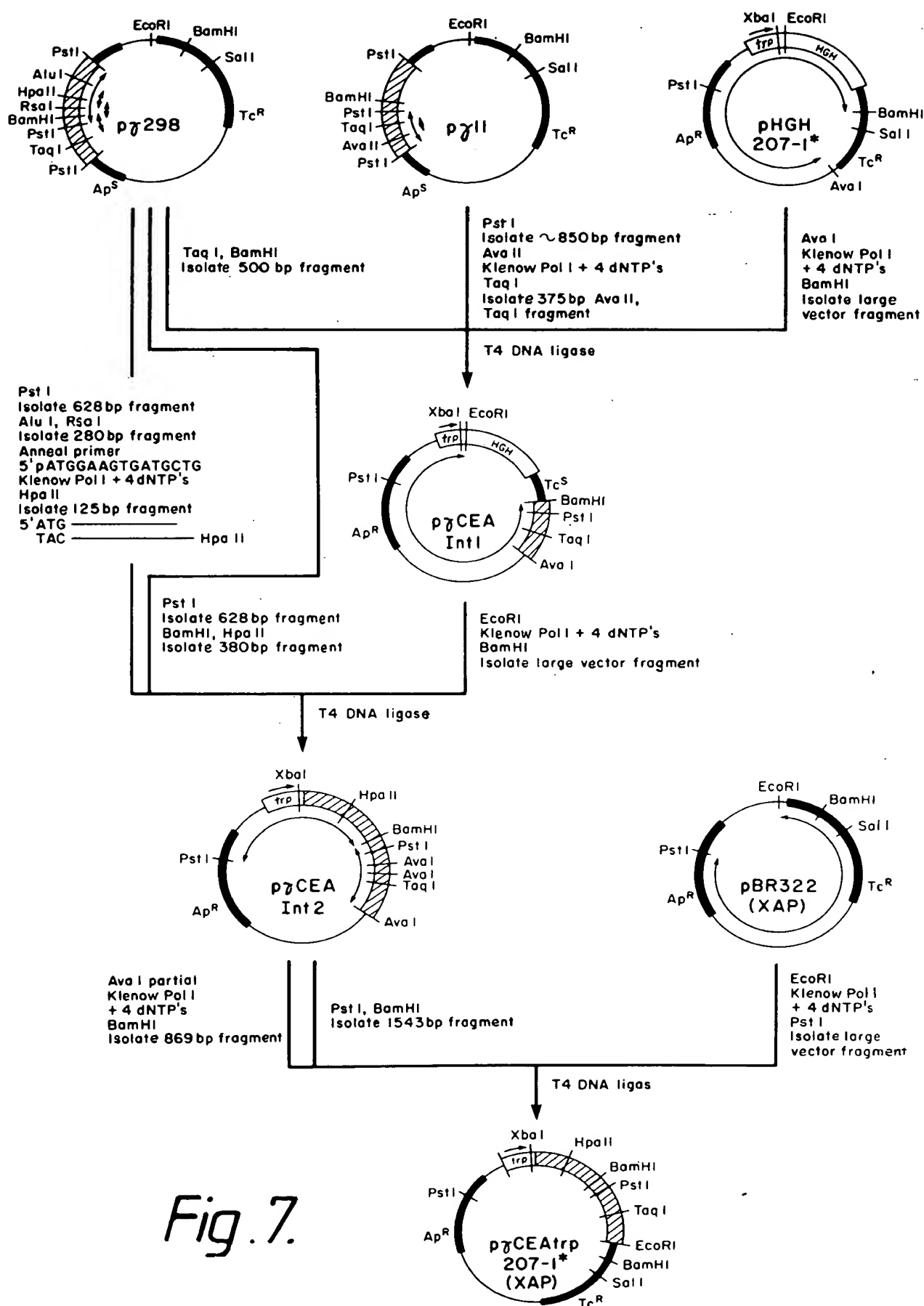


Fig. 7.

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

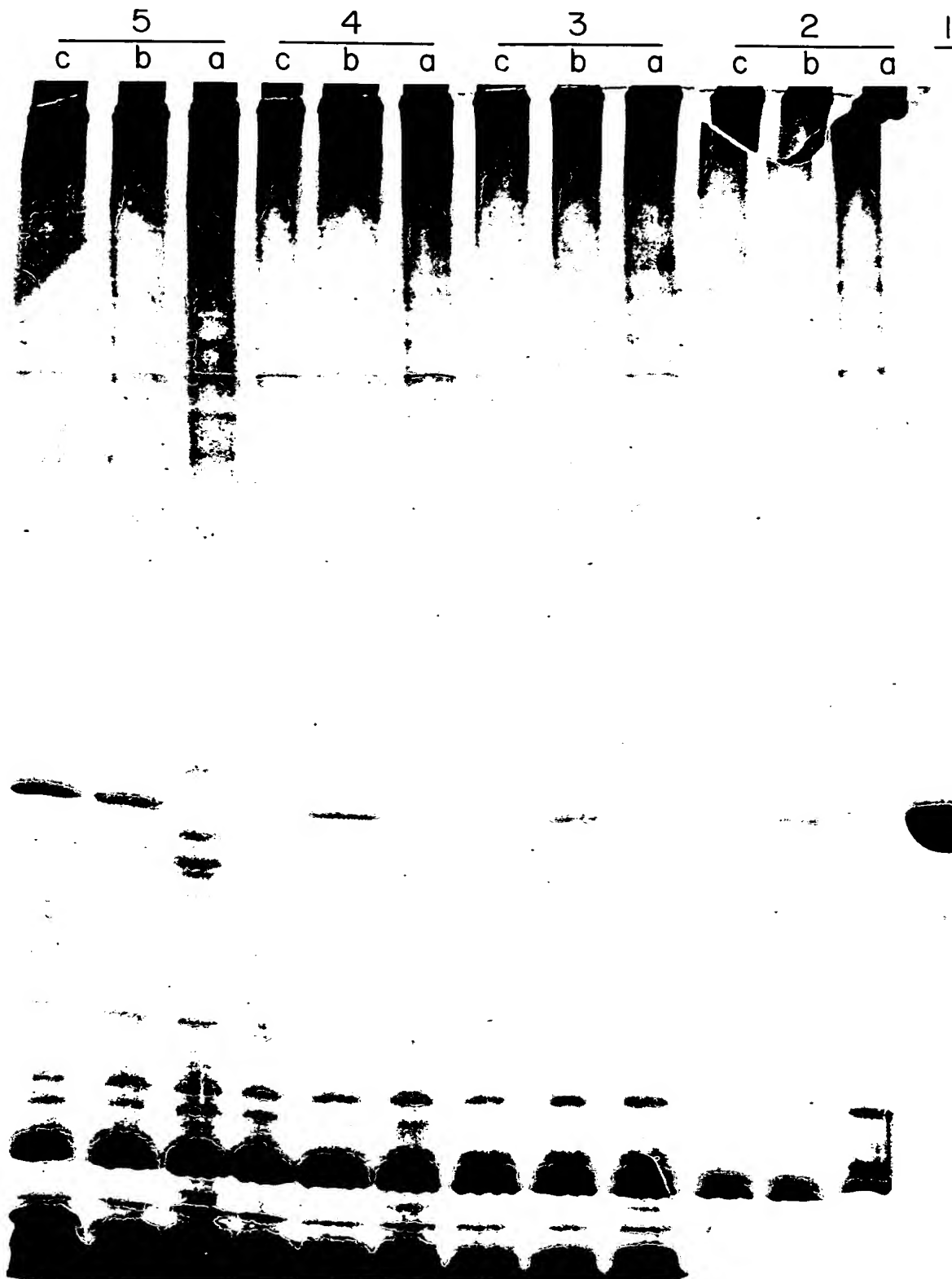
APPLN. FILING DATE: JUNE 10, 1988

TITLE: RECOMBINANT IMMUNOGLOBULIN PREPARATIONS

INVENTOR(S): CABILLY *ET AL.*

APPLICATION SERIAL NO: 07/205,419

SHEET 12 of 19



*Fig. 8A.*

APPROVED	O. G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

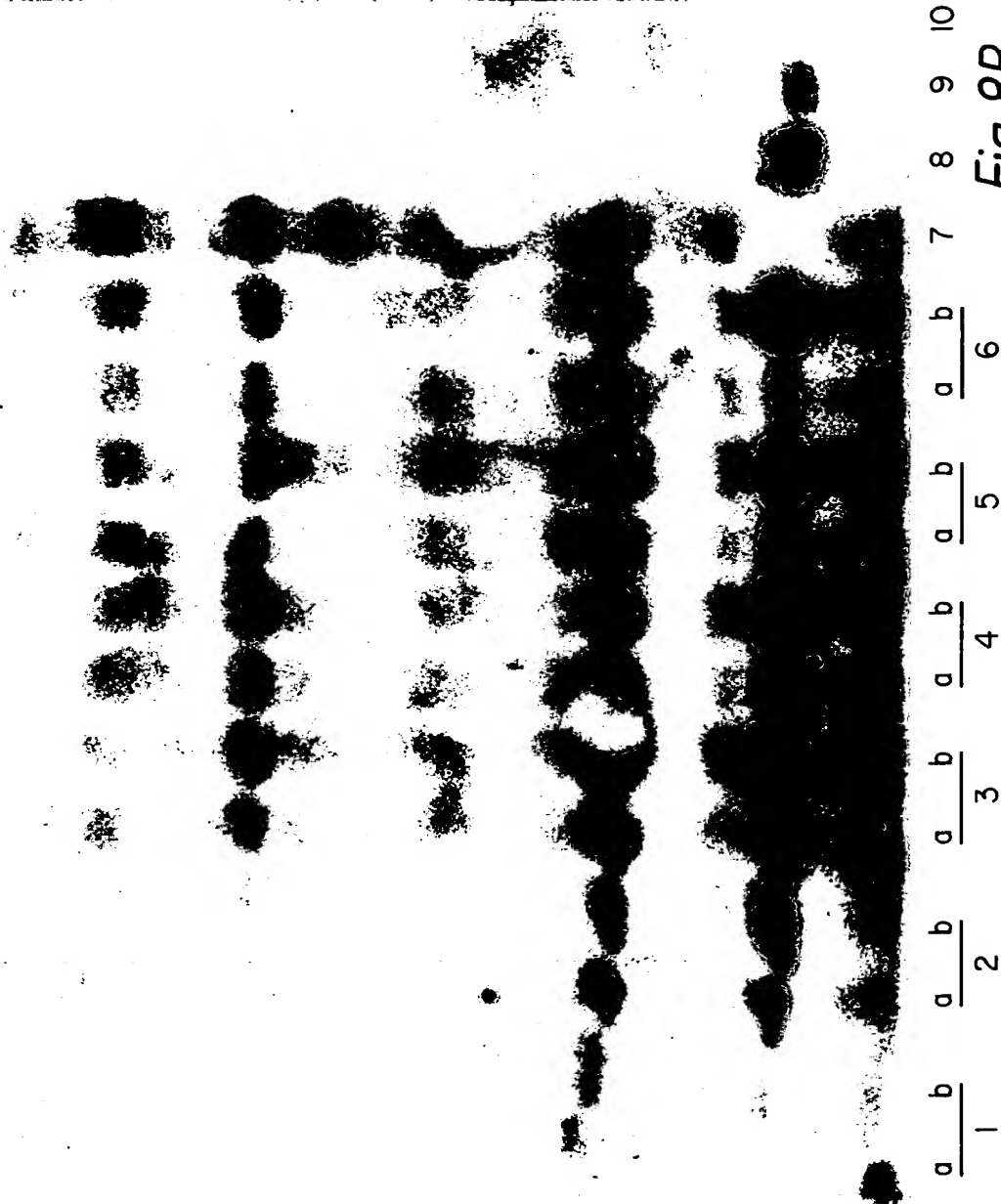


Fig. 8B.

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

APPLN. FILING DATE: JUNE 10, 1988

TITLE: RECOMBINANT IMMUNOGLOBULIN PREPARATIONS

INVENTOR(S): CABILLY *ET AL.*

APPLICATION SERIAL NO: 07/205,419

SHEET 14 of 19



1 2 3 4 5 6 7 8 9

*Fig. 8C.*

APPROVED	O. B. FIG.
BY	CLASS. 3.03 CLASS.
DRAFTSMAN	

APPLN. FILING DATE: JUNE 10, 1988  
 TITLE: RECOMBINANT IMMUNOGLOBULIN PREPARATIONS  
 INVENTOR(S): CABILLY ET AL.  
 APPLICATION SERIAL No: 07/205,419

SHEET 15 of 19

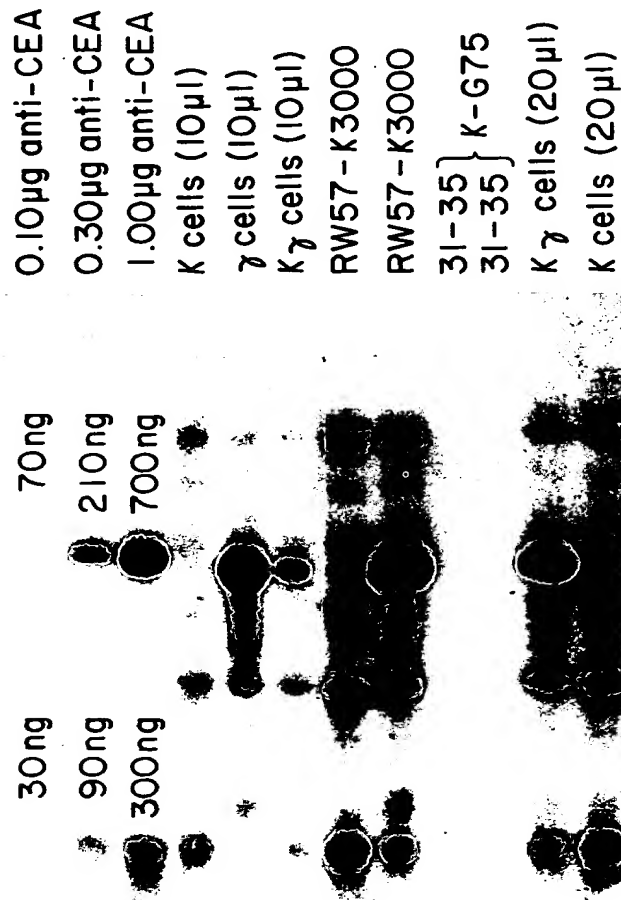


Fig. 9.

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	CLASS

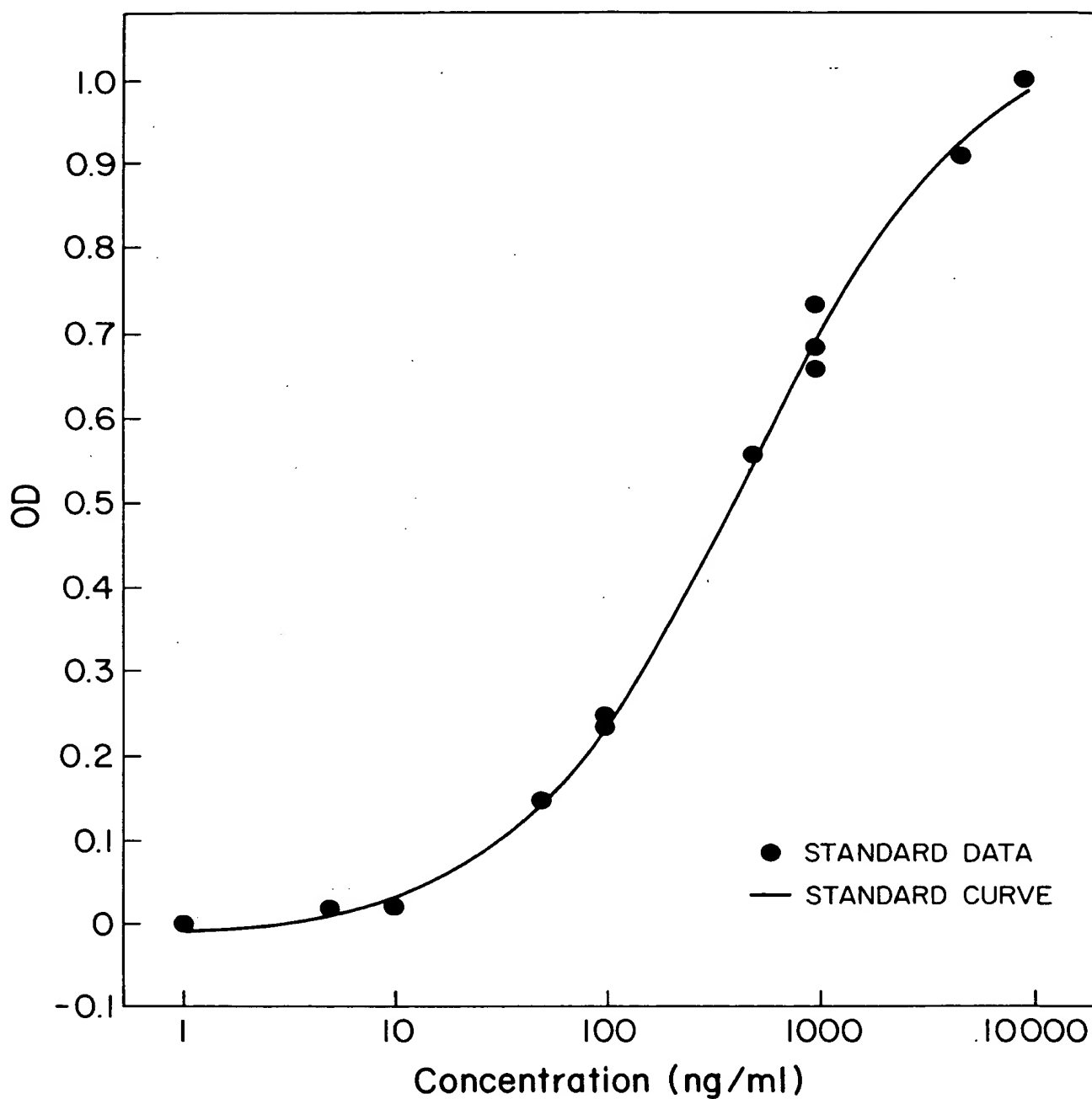
APPLN. FILING DATE: JUNE 10, 1988

TITLE: RECOMBINANT IMMUNOGLOBULIN PREPARATIONS

INVENTOR(S): CABILLY *ET AL.*

APPLICATION SERIAL No: 07/205,419

SHEET 16 of 19



*Fig. 10.*



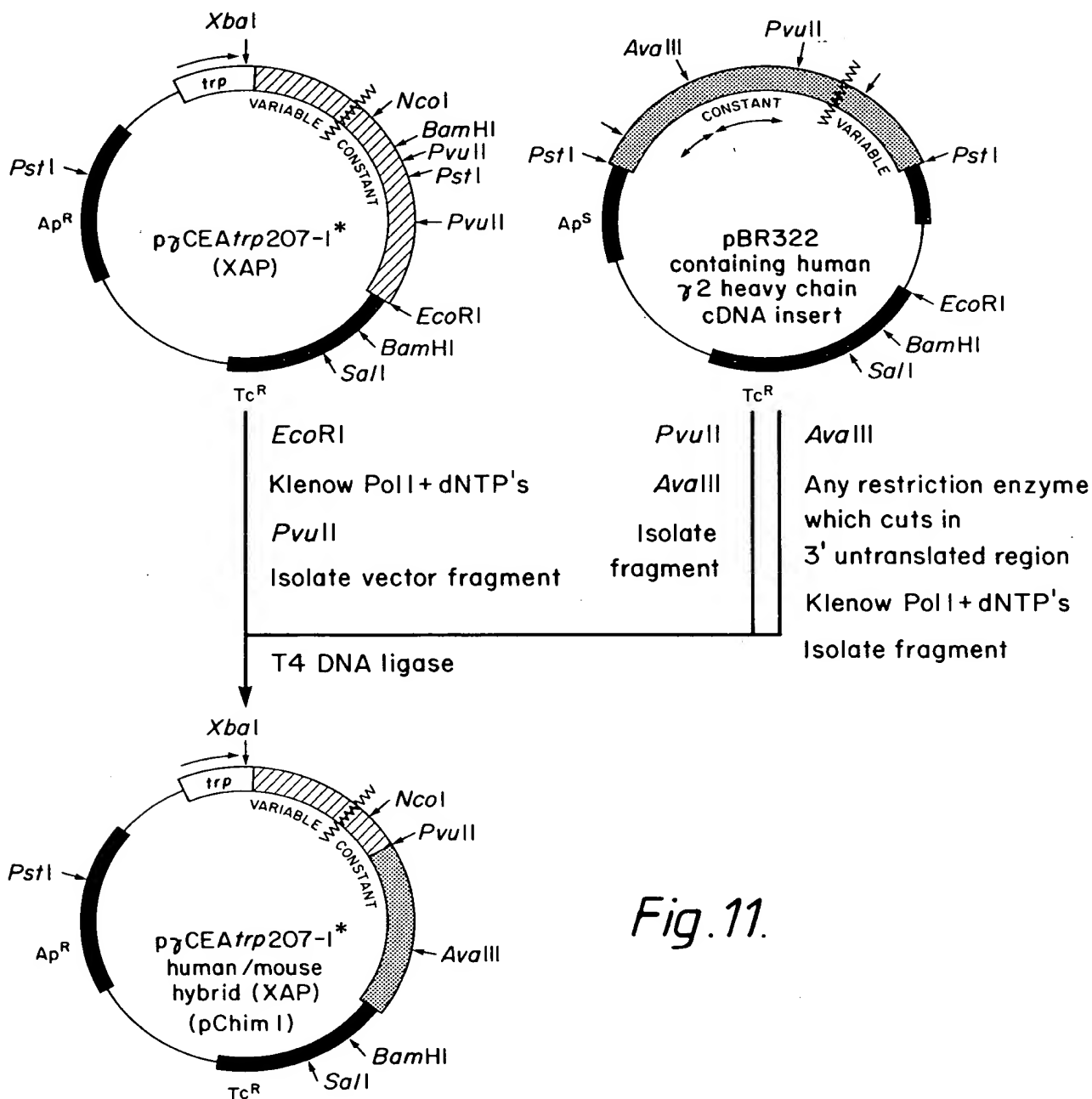


Fig. 11.

APPROVED	Q.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

APPL. FILING DATE: JUNE 10, 1988

TITLE: RECOMBINANT IMMUNOGLOBULIN PREPARATIONS

INVENTOR(S): CABILLY ET AL.

APPLICATION SERIAL NO: 07/205,419

SHEET 18 of 19

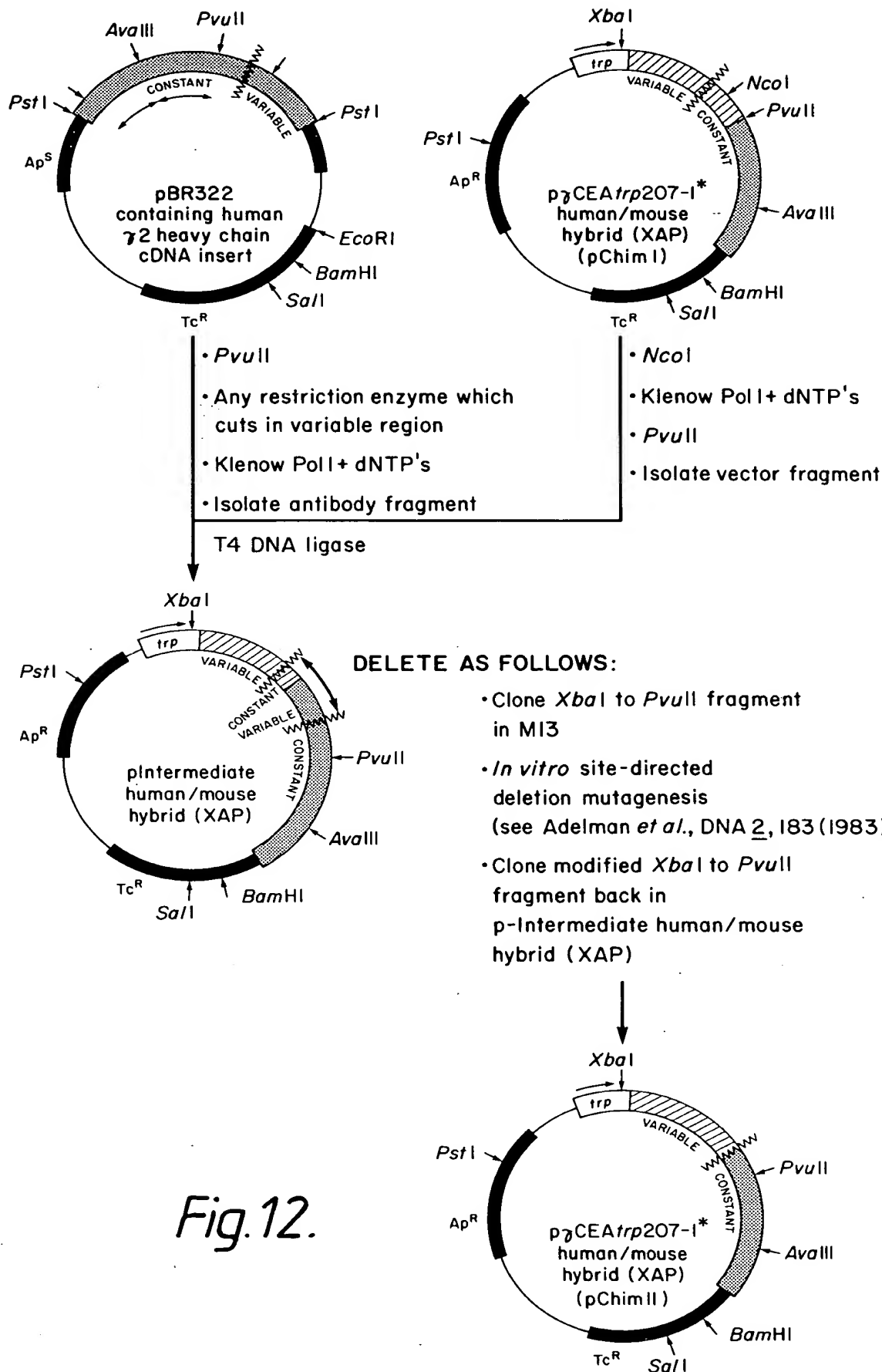


Fig.12.

APPROVED	FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

APPLN. FILING DATE: JUNE 10, 1988  
 TITLE: RECOMBINANT IMMUNOGLOBULIN PREPARATIONS  
 INVENTOR(S): CABILLY *ET AL.*  
 APPLICATION SERIAL NO: 07/205,419

SHEET 19 of 19

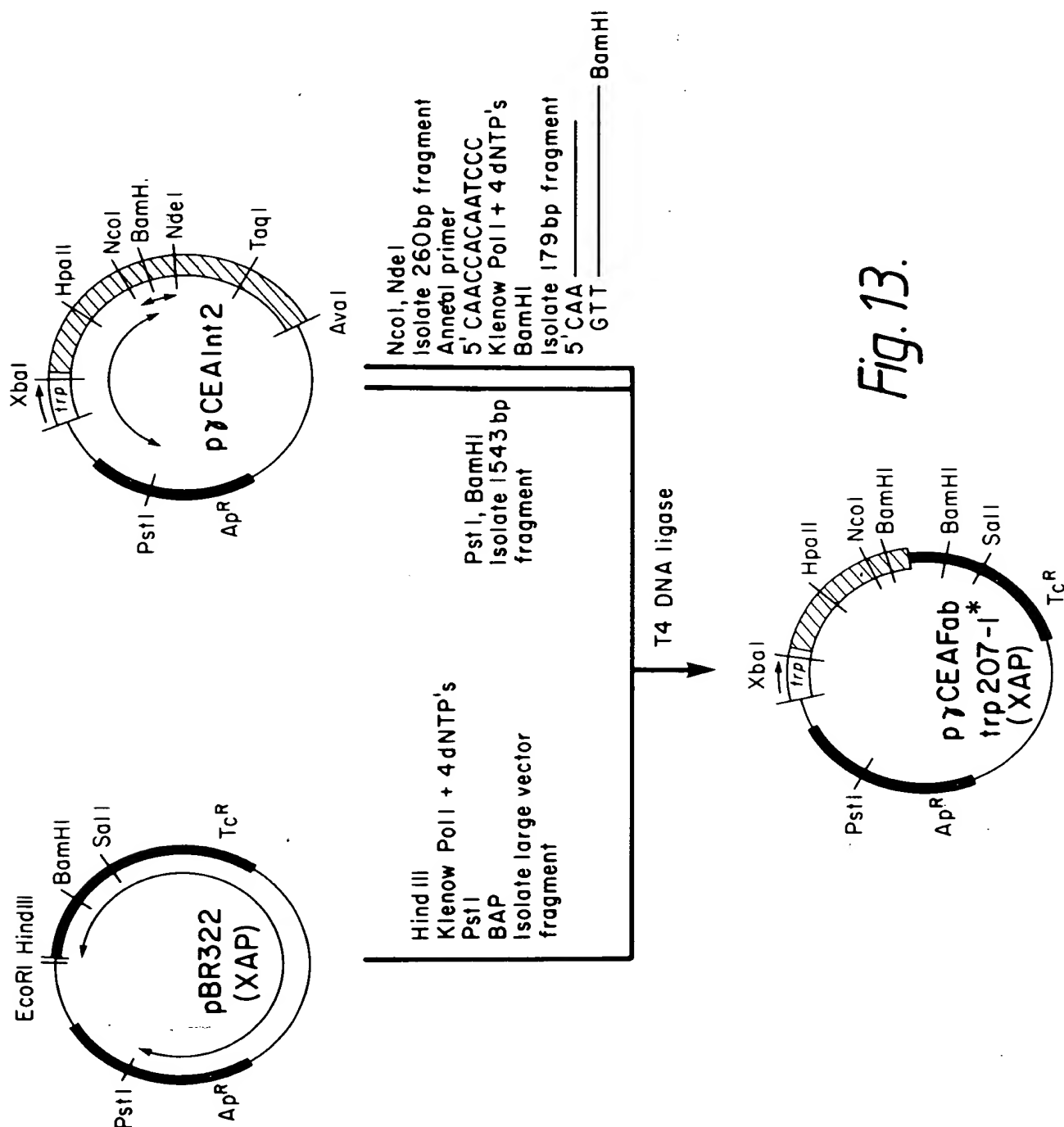


Fig. 13.